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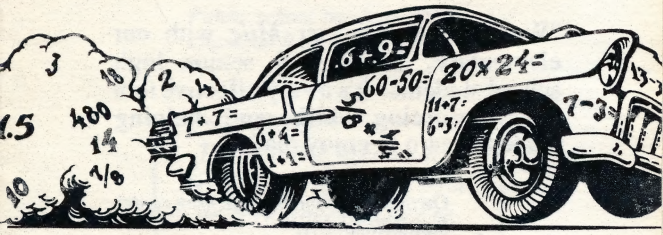
The Quarter Mile™

for kids of all ages who like to compete against themselves or others.



Unique, arcade-style MATH fun.

An effective learning tool.

An exhilarating game.

by Barnum Software

Available for the Apple II family (64K).

The story behind *The Quarter Mile*

Designed by a junior high math teacher who taught for 13 years, *The Quarter Mile* is the result of inspiration and hard work. With *The Quarter Mile's* completion, Dan Barnum achieved his goal of making a learning tool that's effective for both remedial and accelerated students *and* exciting for adults and kids of all ages.

Since finishing *The Quarter Mile*, Mr. Barnum has spent nearly as many hours playing his creation as he did programming it (and, gasp, he programmed it in the especially tedious language of arcade games: assembly language!).

The Quarter Mile's place in learning

Whether you're learning in the classroom or at home, you'll need to master certain facts. This is especially true in math. The ability to reason and analyze can be severely hampered if the "tools" you use are rusty. That's why practice is so important: it polishes tools used in higher learning and in everyday life.

> "We use *The Quarter Mile* with our elementary, junior and senior high school students. It's a very effective tool for reinforcing skills and helping students learn to enjoy math."
>
> *Dale Gates, Ph.D.*
> *Owner of a franchise learning center*
> *Santa Rosa, CA*

Arcade-style excitement

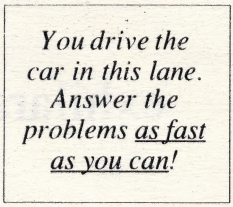
The Quarter Mile features extremely fast animation along with rumbling sound, which is adjustable to three levels (normal, low and off) and can be easily set up to run through a stereo. Two replay features let you review the arcade action.

Unique competitive format

As far as we know, there's no other educational computer game that uses *The Quarter Mile's* competitive format: *competing against yourself.*

You compete not against the computer but against recordings of your own constantly updated, best performances.

Non-threatening, non-ego-crushing competition is the result. If you lose, you lose only to your own previously recorded, best races; if you win (or beat *any* of your best performances), you'll then have to compete against the new, improved performance too. It's like lifting yourself up by the boot straps, but this really works!



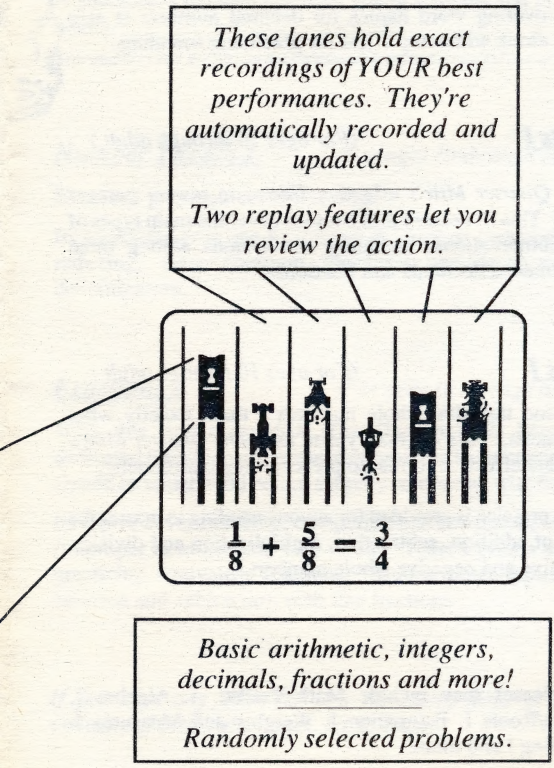
Other features

The Quarter Mile is infinitely adjustable. Because you compete against yourself, the competition automatically self-adjusts to your own speed level regardless of the difficulty of the math involved.

Lightning-quick responses are accepted. This makes *The Quarter Mile* fun for advanced students and adults. Answers to problems can be entered as fast as humanly possible.

"The program is great! It helps the students work on speed and accuracy with math skills in a fun and motivational way. Another much appreciated feature is that the program allows each student to be a winner and race against him/herself.... I highly recommend *The Quarter Mile* for educational purposes."

Kathy Phelps
Public school teacher (fifth grade)
Diamond Bar, CA


These lanes hold exact recordings of YOUR best performances. They're automatically recorded and updated.
Two replay features let you review the action.
1/8 + 5/8 = 3/4
Basic arithmetic, integers, decimals, fractions and more!
Randomly selected problems.

The Quarter Mile disk

contains the following topics:

Keyboard Warm-up	with 1 digit numbers
Keyboard Warm-up	with 2 digit numbers
Add	from 0+0 through 4+4
Add	from 0+0 through 9+9
Subtract	from 0-0 through 18-9
Multiply	from 0x0 through 9x9
Divide	from 0/1 through 81/9
Mixed	up through 9's facts
Multiply	from 0x0 through 13x13
Multiply	from 0x0 through 25x25

Add/Sub with Integers - 1 digit answers
Greatest Common Factor
Fraction Sampler
Easy Multiplication with Decimals
Exponents
Keyboarding Practice with Single Letters

(There's a built-in handicap system that helps you improve your speed in harder topics.)

"The content is excellent, and the flexibility of speeds allows instruction for both slow and fast learners."

Roy R. Gray
Principal
Los Pinos High School
Lake Elsinore, CA

"I especially like being able to print student results - the students always feel more successful if they have a printout to take home. I also like the program design and the fact that students compete against themselves for their personal best. Keep up the good work!"

Kathleen Bigley
Teacher
Special ed. private school
San Jose, CA

Easy commands for printing and saving hundreds of automatically ranked records make *The Quarter Mile* ideal for tournaments.

Don't forget about Barnum Software's annual tournament.

Order Form

	Qty.		Cost
$45.00	___	*The Quarter Mile* Price includes an *Accessory disk* of your choice. Write your choice here:_____	$_____

$10.00 each — *Accessory disks*
(See descriptions on other pages.)

		Others (When available)	
___	*Whole Numbers I*	___	_____
___	*Whole Numbers II*	___	_____
___	*Number Theory I*	___	_____
___	*Fractions I*	___	_____
___	*Fractions II*	___	_____
___	*Decimals I*	___	_____
___	*Percents I*	___	_____
___	*Integers I*	___	_____

Enter total cost of *Accessory disks* here: $_____

$3.00 ___ *Full-working demo* $_____
Self-erases after being loaded seven times.

Sub Total: $_____
CA residents add 6% sales tax: $_____
Add 5% of Sub Total for shipping and handling: $_____

Total: $_____

System requirements: Apple® II+ (64K), IIc, IIe or IIgs.
Backup policy: should your *Quarter Mile* or *Accessory disk(s)* become physically damaged or inadvertantly erased, Barnum Software will replace it for $3.00.
Schools: call and ask about discounts for volume purchases.

Company/School_____
Name_____
Street Address_____
City_____State____Zip_____
Phone#__(_____)_____

Payment by: **Check one**

Money Order/Cashier's Check/School P.O. ☐
Fastest Shipping! (Order shipped within 24 hrs.)

Personal Check w/Driver's License# ☐
(Allow 4 days for check to clear.)

Send order to

Barnum Software
2201 Broadway, Suite 201
Oakland, CA 94612

In CA (415) 268-0804 ☎ Nationwide (800) 332-3638

Accessory Disk Descriptions

Fractions II *(For ages 11 through adult.)*

The perfect sequel for those who have mastered *Fractions I.*

This challenging *Accessory disk* expands *The Quarter Mile* by adding topics that cover fraction computations.

Topics cover addition, subtraction, multiplication and division with unlike, like and mixed fractions over varying levels of difficulty.

Decimals I *(For ages 10 through adult.)*

This *Accessory disk* makes decimal arithmetic available to any *Quarter Mile* owner.

Several topics cover multiplication, division, addition and subtraction of decimal numbers at two levels of difficulty. (Lots of practice multiplying and dividing by .1 and .01.)

A topic covering word names for decimal numbers is also included, along with a topic just for practicing rounding.

Percents I *(For ages 10 through adult.)*

Use *The Quarter Mile's* effective format to master percent concepts! This *Accessory disk's* topics cover the main types of percent computations, including conversions among three forms: percents, decimals and fractions.

Integers I *(For ages 10 through adult.)*

Positive and negative whole numbers - that's exactly what *integers* mean. This *Accessory disk* uses *The Quarter Mile's* exciting and effective format to present integer arithmetic.

Excellent practice is provided for anyone needing to master the concepts of addition, subtraction, multiplication and division with positive and negative whole numbers.

Future releases may include Math Tricks I, Algebra I, Exponents/Roots I, Estimation I, Weights and Measures I, Keyboarding I and more.

Apple II+, IIc, IIe and IIgs are trademarks of Apple Computer, Inc.

Accessory Disk
Descriptions

Whole Numbers I *(For ages 5 through adult.)*

Great for primary grades! This *Accessory disk* provides excellent practice for any *Quarter Mile* player just learning to add, subtract, multiply or divide.

It changes *The Quarter Mile's* topics so that beginning students won't be forced into a level that's beyond their reach. Topics are broken down into *gradual* levels of difficulty.

Players can also master their "times tables" with this disk's dedicated multiplication tables.

Whole Numbers II* *(For ages 8 through adult.)*

Here's an *Accessory disk* that adds some beef to *The Quarter Mile*. With heavyweight whole number topics such as "Squares from 0x0 through 25x25," "Divide from 0/1 through 200/20" and "Subtract from 0-0 through 200-200," this *Accessory disk* is guaranteed to challenge both young students and proficient adults.

* For coherency's sake, this disk also contains seven lower level topics from *The Quarter Mile* disk.

Number Theory I *(For ages 10 through adult.)*

Excellent preparation for fractions.

Its topics cover prime factorization, greatest common factor, reducing, least common multiples and least common denominators.

Fractions I *(For ages 10 through adult.)*

With this *Accessory disk, The Quarter Mile* becomes a dedicated fraction race course, emphasizing basic concepts that should be understood before actually computing with fractions.

Its topics cover reducing, comparing and converting fractions (improper to mixed and vice versa). There's even a topic for practicing equivalent fractions. Several other topics cover addition and subtraction with like fractions.

If you have any ideas for new Accessory disks or for the contents of established ones, let us know!

"My students loved the program and chose it over all others during their computer lab time. One teacher even came in and asked about it as his students got so good on multiplication facts *so* fast he just had to see it in action."

Stephanie A. Miller
Librarian
Columbus Elementary School
McMinnville, OR

"The wards [students] quickly became 'hooked' on it and it was difficult to get them to stop playing once they started.... The students not only enjoy using it but also are showing growth in areas I've had to reteach several times without success."

Rachel McCoy
Teacher
Oak Glen Youth Conservation Camp
Yucaipa, CA

"Your program is much more exciting for children to use than any other program I've seen on math."

Candace Sinclair
Owner/manager
Learning Tree Tutors
Contra Costa County, CA

- Educational entertainment that's exciting for the whole family.
- Healthy, invigorating competition through its unique competitive format.
- Extremely fast and smooth animation.
- Rumbling sound (adjustable and capable of running through your stereo).
- Easy commands for saving hundreds of entire races and printing their rankings.
- Vast expandability through its ever-increasing line of *Accessory disks*.

Dealer Inquiries Welcome.

Barnum Software, 2201 Broadway, Suite 201, Oakland, CA 94612
In CA (415) 268-0804 Nationwide (800) 332-3638

Price increase effective March 15, 1988

***Accessory Disks* will be $15.00 each (old price: $10.00 each).**

Accessory Disks will also be offered in packs:

$25.00	___	***Primary Pack*** TM (2 Accessory Disks: Whole Numbers I and Whole Numbers II.)
$35.00	___	***Fraction Pack*** TM (3 Accessory Disks: Number Theory I, Fractions I and Fractions II.)
$25.00	___	***Decimal & Percent Pack*** TM (2 Accessory Disks: Decimals I and Percents I.)
$15.00	___	***Integers I*** (1 Accessory Disk: Integers I.)

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